CLAIMS:

What is claimed is:

1. A method for determining parameters needed to communicate with a remote node in a computer network, the method comprising:

compiling a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;

receiving a service request from a client;

looking up the queue pair number associated to the requested service; and

replying to the client, wherein the reply includes:

the address of the node hosting the requested service; and

the queue pair number associated with the requested service.

2. The method according to claim 1, further comprising registering the network nodes with a central server, wherein the central server contains the queue-pair-number map.

3. The method according to claim 1, further comprising initiating the network nodes with the queue-pair-number map.

4. The method according to claim 1, further comprising:

receiving a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;

associating a new queue pair number with a new dynamic instance of the requested service; and

returning a second reply to the client, wherein the second reply includes the new queue pair number.

5. A method for determining parameters needed to communicate with a remote node in a computer network, the method comprising:

associating a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;

receiving a service request from a client, wherein the request is addressed to the well-known queue pair number; and

replying to the client, wherein the reply contains attributes necessary for communication with the requested service.

6. The method according to claim 5, wherein the well-known queue pair number corresponds to all well-known ports in the node.

7. The method according to claim 5, wherein the well-known queue pair number corresponds to well-known ports which are specified as the least used well-known ports in the node.

8. The method according to claim 5, wherein the reply returned to the client includes a new queue pair number which differs from the well-known queue pair number, wherein the new queue pair number is used by the client for subsequent communication with the service.

9. A computer program product in a computer readable medium for use in a data processing system, for determining parameters needed to communicate with a remote node in a computer network, the computer program product comprising:

instructions for compiling a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;

instructions for receiving a service request from a client;

instructions for looking up the queue pair number associated to the requested service; and

instructions for replying to the client, wherein the reply includes:

the address of the node hosting the requested service; and

the queue pair number associated with the requested service.

10. The computer program product according to claim 9, further comprising instructions for registering the network nodes with a central server, wherein the central server contains the queue-pair-number map.

11. The computer program product according to claim 9, further comprising instructions for initiating the network nodes with the queue-pair-number map.

12. The computer program product according to claim 9, further comprising:

instructions for receiving a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;

instructions for associating a new queue pair number with a new dynamic instance of the requested service; and

instructions for returning a second reply to the client, wherein the second reply includes the new queue pair number.

13. A computer program product in a computer readable medium for use in a data processing system, for determining parameters needed to communicate with a remote node in a computer network, the computer program product comprising:

instructions for associating a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;

instructions for receiving a service request from a client, wherein the request is addressed to the well-known queue pair number; and

instructions for replying to the client, wherein the reply contains attributes necessary for communication with the requested service.

14. The computer program product according to claim 13, wherein the well-known queue pair number corresponds to all well-known ports in the node.

15. The computer program product according to claim 13, wherein the well-known queue pair number corresponds to well-known ports which are specified as the least used well-known ports in the node.

16. The computer program product according to claim 13, wherein the reply returned to the client includes a new

queue pair number which differs from the well-known queue pair number, wherein the new queue pair number is used by the client for subsequent communication with the service.

17. A system for determining parameters needed to communicate with a remote node in a computer network, the system comprising:

a compiler which compiles a queue-pair-number map, wherein the map associates unique queue pair numbers with services hosted by network nodes;

a receiver which receives a service request from a client;

a look-up component which looks up the queue pair number mapped to the requested service; and

a response component which replies to the client, wherein the reply includes:

the address of the node hosting the requested service; and

the queue pair number associated with the requested service.

18. The system according to claim 17, further comprising:

a second receiver which receives a second service request from the client, wherein the second request is addressed to the queue pair number included in the first reply;

a processing component which associates a new queue pair number with a new dynamic instance of the requested service; and

a second response component which sends a second reply to the client, wherein the second reply includes the new queue pair number.

19. A system for determining parameters needed to communicate with a remote node in a computer network, the system comprising:

an associating component which associates a service hosted by the node with a well-known queue pair number, wherein the well-known queue pair number corresponds to at least one well-known port in the node;

a receiver which receives a service request from a client, wherein the request is addressed to the well-known queue pair number; and

a response component which sends a reply to the client, wherein the reply contains attributes necessary for communication with the requested service.